

integrated signal (Sn) comprises dividing the offset adjusted unnormalized signal by the integration time (ti).

65. The program storage device of claim 64, wherein determining the offset adjusted unnormalized signal further comprises multiplying the difference (S - So) by a scaling factor (tn).

REMARKS

Applicant has amended claims 9 and 17 of U.S. Patent No. 6,040,586, and has added new claims 26-65. In accordance with 37 C.F.R. § 1.173(c), Applicant has provided herein a table of exemplary support for the claim amendments and the new claims. Claims 1-65 are pending in the application.

TABLE OF EXEMPLARY SUPPORT

Claims	Exemplary Support for Claim Amendments/New Claims
9	E.g., col. 5, lines 27-29.
17	E.g., col. 3, lines 57-63.
26	E.g., col. 4, lines 45-47.
27	E.g., col. 3, lines 44-50.
28	E.g., col. 4, lines 27-36.
29	E.g., figure 1; col. 3, line 55 - col. 4, lines 2.
30	E.g., col. 3, lines 21-25.
31-65	E.g., col. 3, line 3 - col. 5, lines 55, such as col. 4, lines 33-36.

For the benefit of the Examiner, Applicant provides the following additional explanation related to the new independent claims presented in this Preliminary Amendment.

Claim 26 is based on previously issued claim 16, but broadens the claimed subject matter. Specifically, in contrast to claim 16, where the preamble recites "An

apparatus for scanning a plurality of channels," the preamble of claim 26 recites "An apparatus for scanning one or more channels," as more specifically set forth in the claims. Support can be found throughout the specification and claims as originally filed, such as, for example, col. 4, lines 45-48, and original claim 17.

Claim 31 is related to previously issued claim 1. Claim 31 differs from claim 1 in that the preamble of claim 31 recites "A data collection method for scanning a scan window comprising," while the preamble of claim 1 recites "A data collection method for scanning a scan window comprising one or more channels comprising the steps of," as more specifically set forth in the claims. Claim 31 also includes the additional language "determining an integration time (ti) for the integrated signal." Claim 31 also differs from claim 1 as shown with underlining (additional text) and brackets (deleted text), as follows: "calculating a velocity-normalized integrated signal (Sn)_i [as a function of a scan velocity and the integrated signal S] the calculating comprising dividing the integrated signal (S) by the integration time (ti)," as more specifically set forth in the claims.

Support can be found throughout the specification and claims as originally filed, such as, for example, col. 4, lines 27-36.

Claim 48 is related to previously issued claim 16. Claim 48 differs from claim 16 in that the preamble language "An apparatus for scanning a plurality of channels" of claim 16 is replaced with the language "An apparatus for scanning one or more channels," as more specifically set forth in the claims. Claim 48 also includes the additional language "means for determining an integration time (ti) for the integrated signal." Claim 48 also differs from claim 16 as shown with underlining and brackets, as follows: "computer means for receiving the integrated signal (S) and the integration time

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(ti), and for determining [a scan velocity and for calculating] a velocity-normalized integrated signal (Sn), [as a function of the scan velocity and the integrated signal S] the determining comprising dividing the integrated signal (S) by the integration time (ti),” as more specifically set forth in the claims. Support can be found throughout the specification and claims as originally filed, such as, for example, col. 4, lines 27-36.

Claim 54 is related to previously issued claim 17. Claim 54 differs from claim 17 in that the language “a scanner for effecting a scanning of” has been replaced with “a scanner configured to scan,” as more specifically set forth in the claims. Claim 54 also includes the additional language “wherein an integrated signal (S) is detected by scanning the integrating detector relative to the scan window,” and “a timer configured to determine an integration time (ti) for the integrated signal.” Claim 54 also differs from claim 17 as shown with underlines and brackets, as follows: “a computer [for receiving] configured to receive the integrated signal (S) and the integration time (ti), and [for determining a scan velocity and for calculating] to determine a velocity-normalized integrated signal (Sn), the determining comprising dividing the integrated signal (S) by the integration time (ti),” as more specifically set forth in the claims. Support can be found throughout the specification and claims as originally filed, such as, for example, col. 4, lines 27-36.

Claim 62 is based on previously allowed claim 21. Claim 62 differs from claim 21 as shown with underlines and brackets, as follows: “A program storage device readable by a machine, tangibly embodying a program of instructions executable by a machine to perform a method [steps] to scan a scan window comprising one or more channels, said method [steps] comprising,” as more specifically set forth in the claims. Claim 62 also

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includes the additional language "determining an integration time (ti) for the integrated signal (S)." Claim 62 also differs from claim 21 as shown with underlines and brackets, as follows: "calculating a velocity-normalized integrated signal (Sn)_i [as a function of a scan velocity and the integrated signal S] the calculating comprising dividing the integrated signal (S) by the integration time (ti)," as more specifically set forth in the claims. Support can be found throughout the specification and claims as originally filed, such as, for example, col. 4, lines 27-36.

Please grant any extensions of time required to enter this Preliminary Amendment and charge any additional required fees to Deposit Account No. 06-0916.

Respectfully submitted,

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